BWXT Y-12
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Y-12 NATIONAL SECURITY COMPLEX

SOIL MANAGEMENT PLAN FOR THE POTABLE WATER SYSTEM UPGRADES PROJECT

April 2007

prepared by
Environmental Compliance Department
Environment, Safety and Health Division
Y-12 National Security Complex
Oak Ridge, Tennessee 37831

managed by
BWXT Y-12, L.L.C.
for the
U.S. Department of Energy
under contract number
DE-AC05-00OR22800

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Name Stan Duke **Date:** 4/4/2007

MANAGED BY
BWXT Y-12, L.L.C.
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

UCN-13672 (10-00)

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APPROVALS: SOIL MANAGEMENT PLAN FOR THE POTABLE WATER SYSTEM UPGRADES PROJECT

Approved by:

R.C. Spiva, Project Manager	4/2/07 Date
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ACRONYMS, ABBREVIATIONS, AND INITIALISMS

ACD	Analytical Chemistry Division
BMP	best management practice
C/D	construction/demolition
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	*Code of Federal Regulations*
COC	contaminant of concern
DOE	U.S. Department of Energy
EMWMF	Environmental Management Waste Management Facility
E/P	evacuation/penetration
NSC	National Security Complex
NNSA	National Nuclear Security Administration
ORR	Oak Ridge Reservation
PCB	polychlorinated biphenyl
PWSU	Potable Water System Upgrades
RADCON	radiological control
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
RSI	Restoration Services, Inc.
RWP	radiation work permit
SMP	Soil Management Plan
SWDF	Solid Waste Disposal Facility
TSCA	Toxic Substances Control Act
UEFPC	Upper East Fork Poplar Creek
WAC	waste acceptance criteria

EXECUTIVE SUMMARY

This plan describes and applies to the handling and management of soils excavated in support of the Y-12 Potable Water Systems Upgrades (PWSU) Project. The plan is specific to the PWSU Project and is intended as a working document that provides guidance consistent with the *Soil Management Plan for the Oak Ridge Y-12 National Security Complex* (Y/SUB/92-28B99923C-Y05) and the *Record of Decision for Phase II Interim Remedial Actions for Contaminated Soils and Scrapyard in Upper East Fork Popular Creek, Oak Ridge, Tennessee* (DOE/OR/01-2229&D2).

The purpose of this plan is to prevent and/or limit the spread of contamination when moving soil within the Y-12 complex. The major feature of the soil management plan is the decision tree. The intent of the decision tree is to provide step-by-step guidance for the handling and management of soil from excavation of soil through final disposition. The decision tree provides a framework of decisions and actions to facilitate Y-12 or subcontractor decisions on the reuse of excavated soil on site and whether excavated soil can be reused on site or managed as waste.

Soil characterization results from soil sampling in support of the project are also presented.

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1. INTRODUCTION

This plan establishes soil handling requirements applicable to the Potable Water System Upgrades (PWSU) Project in accordance with the BWXT Y-12 contract with the U.S. Department of Energy (DOE) for work at the Y-12 National Security Complex (NCS).

The project will make needed repairs and upgrades to meet operational and regulatory requirements to ensure continued reliability of the potable water distribution system. While executing the project, it will be necessary to excavate, grade, backfill, stockpile, and move soil within the Y-12 site. From process knowledge it is known that contaminated soil is present and may be encountered within the areas of Y-12 where potable water distribution upgrades are being performed.

Figure 1 is a site plan of the construction area inside the Y-12 facility Protected Area and is delineated as four subareas based on process knowledge, historical information, and routinely collected radiological survey data.

Appendix A contains a list of definitions and terminology. Appendix B contains the soil remediation levels.

This plan is a living document that will be revised or appended as needed to identify soil-handling issues or details not established at the time the current document is prepared and issued.

Y-12 provides critical and specialized enriched uranium processing, manufacturing, and storage capability in support of the National Nuclear Security Administration (NNSA). Y-12 also serves as the central repository for the nation’s inventory of highly enriched uranium.

The PWSU Project will support Y-12 NSC missions by making needed repairs and upgrades to increase reliability of the potable water distribution system and meet regulatory requirements. The following are the objectives of the project:

- Meet regulatory requirements for safe drinking water by providing backflow protection for known cross connections (antifreeze sprinkler systems) and ensuring proper chlorine residual maintenance in the system.
- Provide Y-12 control and monitoring of potable water coming into the Y-12 distribution system to ensure adequate water flow and pressure to support current and future Y-12 operational needs.
- Address deferred maintenance by replacing cast iron water mains and building feeds (laterals) and obsolete fire hydrants that could limit system reliability.

These upgrades are required to meet regulatory requirements, maintain system availability, and ensure the ability of the system to support production requirements.

The PWSU Project elected to conduct a soil characterization study in five areas of the facility to derive current soil conditions in areas deemed problematic. This environmental data will support worker and environmental protection, as well as possible waste management decisions. The results of this sampling activity are located in Appendix C.

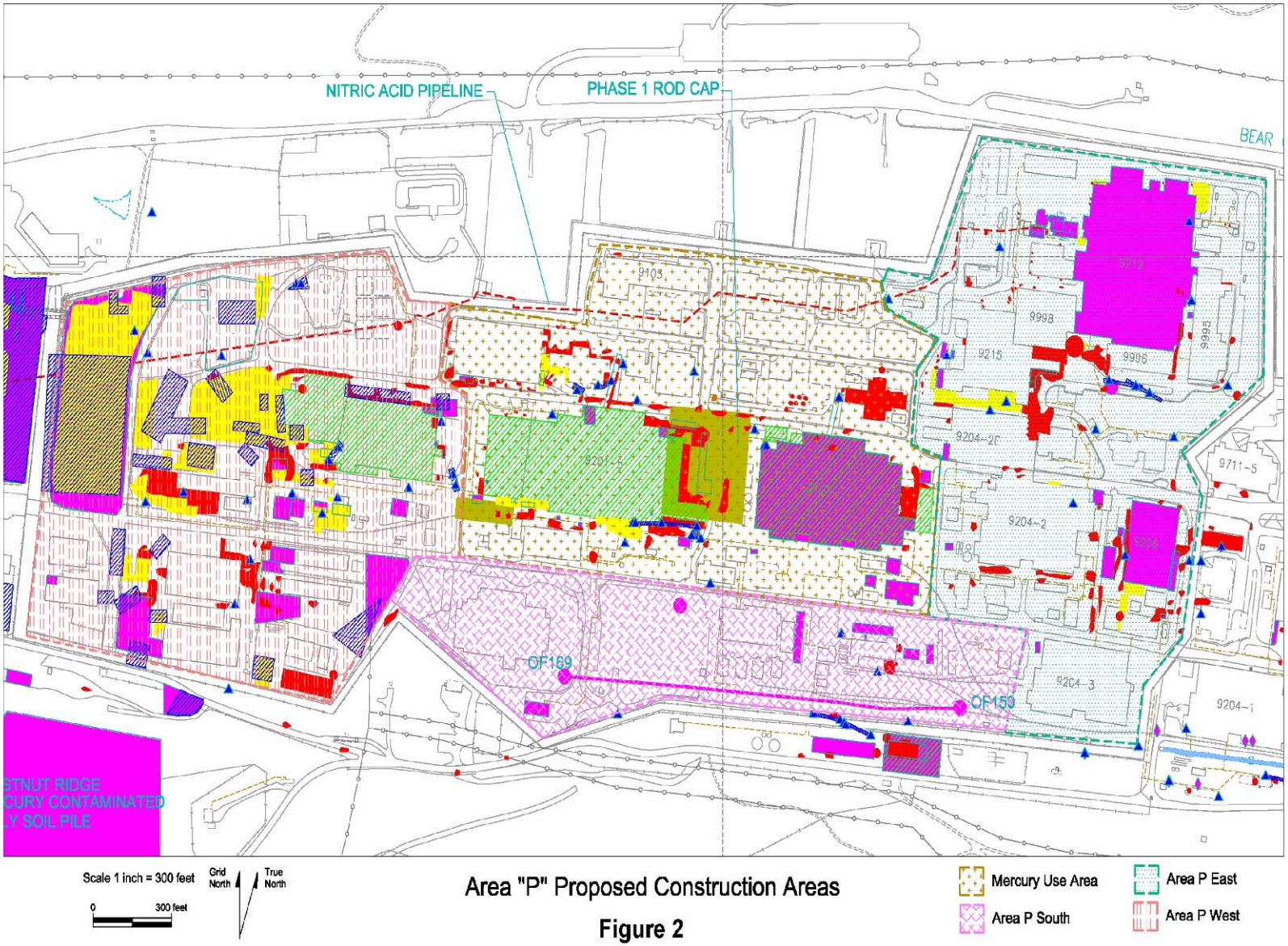

Fig. 1. Area P proposed construction areas.

2. CONTAMINANTS OF CONCERN

Determining whether soil is grossly contaminated is a major component of this plan. If soil is deemed grossly contaminated, further characterization will be necessary to ultimately dispose of the soil.

2.1 RADIONUCLIDES

Before excavation, radiological surveys are to be performed by Y-12 Radiological Control (RADCON) personnel. Additional radiological surveys and controls may be implemented depending on the results of initial surveys. Such controls may include the use of radiological work permits (RWPs), anti-contamination (anti-C) clothing, job coverage by RADCON technicians, and additional postings. In general, if radiation levels are in excess of 2 times background or other limits set by RADCON, further instructions for soil handling will be provided. Contaminated soil will be managed by Y-12 with guidance from RADCON or Industrial Hygiene.

Predominant radionuclides present at Y-12 are uranium and uranium daughters. From previous process and research activities, other radionuclides are present and must be accounted for under certain circumstances. Other radionuclides of concern are thorium-232, cesium-137, radium-226, and the associated daughters of each. Soil remediation levels required by the *Record of Decision for Phase II Interim Remedial Actions for Contaminated Soils and Scrapyard in Upper East Fork Popular Creek, Oak Ridge, Tennessee* (ROD), DOE/OR/01-2229&D2, for each of these radionuclides can be found in Appendix B.

2.1.1 Fixed Versus Removable Versus Transportable/Movable Contamination

Excavated soil may be difficult to manage because the contaminants present may be fixed, removable, or transportable/movable, depending on the physical characteristics of the contaminant and the nature and condition of soil the contaminant is dispersed within. Typically dry soil and crushed stone are less likely to be a removable or transportable contaminant concern. If the excavated soil is damp or wet, the contaminant becomes much more likely to contaminate personnel and equipment. The surface radioactivity guidelines for removable and total/fixed/transportable contamination differ by a factor of 5. Because of the variability of excavated soil characteristics, it will be solely at the discretion of RADCON as to how the limits will apply. If it is deemed that the soil presents a removable contamination hazard, it will either be managed as waste or made nontransportable by applying a layer of crushed stone over the area to avoid contact by personnel and equipment. Protective measures (i.e., crushed stone) will be placed according to the guidance of RADCON.

2.1.2 Physical Attributes

Moisture content and soil composition are two factors that have a bearing on how soil will be handled during excavation. Particular soil compositions/types (such as clay) may readily adhere to tools, equipment, construction material, shoes, or clothing, depending on moisture content. If soil that exhibits the characteristic of adhesion to tools, equipment, etc., is encountered, RADCON controls about how soil is

handled may become more restrictive. Wet soil may also present a greater contamination risk becauseof the difficulty of detecting alpha and beta emissions of contaminants present.

2.1.3 Volumetric Contamination

If excavated soil determined to be waste is volumetrically contaminated and destined for an Oak Ridge Reservation (ORR) Class II Solid Waste Disposal Facility (SWDF), the waste must meet the Tennessee Division of Radiological Health screening criteria. The criterion for total uranium for the Y-12 landfill acceptance is 35 picocuries per gram. There are no criteria for other radionuclides.

If the soil is volumetrically contaminated with radionuclides other than uranium and its daughters, the generator may complete modeling according to Residual Radioactive Material Guidelines and prepare an authorized radiological limits justification package for DOE approval or verify the constituents for proper disposal to allow for acceptance at another disposal facility.

Excavated soil to be dispositioned at a designated spoil area must not exceed background levels of radionuclides. Candidate soil for disposition at these designated areas must be at or below facility background levels or the average concentration presented in the soil ROD table (Appendix B) for exposure units identified in the soil ROD.

2.2 MERCURY

If visible mercury is present during excavation, it is considered gross contamination and Y-12 Waste Management will provide guidance for soil handling. In general, if levels exceed 325 mg/kg (the maximum remediation level per ROD), the soil may not be deemed suitable for reuse. Field methods for quantifying mercury other than visual identification may be implemented.

2.3 POLYCHLORINATED BIPHENYLS

Polychlorinated biphenyl (PCB) contamination falls under the Toxic Substances Control Act (TSCA), which was enacted in 1976 to limit manufacture, processing, making, storage, and disposal of PCBs [40 *Code of Federal Regulations* (CFR) Part 761]. The PCB Disposal Amendments Rule (63 FR 35384 of June 29, 1998), 40 CFR 761.61, which applies to almost all spills or releases, broadened the definition of PCB remediation wastes. Under 40 CFR 761.61, soil contaminated with historical PCB releases at Y-12 is considered as bulk PCB remediation waste. Soil containing non-liquid PCB materials may be classified as PCB bulk product waste.

Identifying the source of PCB spills at Y-12 is important for the management requirements for PCB-contaminated soil and the concentrations that may have been present in any spilled materials. PCBs in soil at Y-12 are likely to be the result of historical spills caused by past operations. However, new PCB spills may be discovered during excavation and will usually be identifiable by soil staining. Requirements for cleanup of PCB spills in soil are explained in the *ORR-PCB-Federal Facilities Compliance Agreement*, Rev. 2 (8/19/1997).

If the apparent PCB level in the soil indicates gross contamination, it will be characterized for disposal.

2.4 RUBBLE AND/OR DEBRIS

If rubble or debris is encountered within an excavation, further soil characterization may be necessary. In general, rubble greater than 2 in. in diameter will not be suitable for reuse. If debris (e.g., asbestos siding and cylinders) is found within excavated material, an effort should be made to determine if further management practices should be implemented.

3. DISPOSAL OPTIONS

3.1 ON-SITE LANDFILLS

On-site options for disposition of excavated soils include Class II (Sanitary/Industrial), Class II Classified Waste, Class IV Construction/Demolition (C/D) SWDFs, and C/D Spoil Areas.

Resource Conservation and Recovery Act (RCRA) hazardous wastes are prohibited from disposal at ORR Class II and Class IV SWDFs. In situ soil is not considered a RCRA solid waste and cannot be a RCRA hazardous waste. If soil does exceed RCRA toxicity characteristic thresholds when excavated, several treatment and disposal constraints apply. These include the Land Disposal Restrictions of 1984, a requirement to eliminate the hazardous characteristic before disposal, and a requirement to treat the soil for any underlying hazardous constituent that may reasonably be expected to be present at 10 times RCRA universal treatment standards.

3.2 OFF-SITE DISPOSAL

Various off-site options are available for waste not meeting the Waste Acceptance Criteria (WAC) for on-site facilities. Each of these facilities has a criterion that must be met before disposition.

3.2.1 Envirocare of Utah

Envirocare is a treatment, storage, and disposal facility authorized by the state of Utah's Nuclear Regulatory Commission Agreement Rules. Envirocare of Utah currently provides licensed disposal capacity for certain types of low-level radioactive waste, and mixed wastes.

3.2.2 Nevada Test Site

The Nevada Test Site accepts low-level radioactive waste from DOE facilities. DOE Order 435.1, *Radioactive Waste Management*, requires that all low-level radioactive waste facilities, operations, and activities have waste acceptance requirements describing the radiological, physical, and chemical limitations of waste that can be accepted and safely managed in the facility. The WAC and process knowledge documentation are required for acceptance. Wastes must be certified as "no-RCRA added," which precludes disposition of historical mercury-contaminated waste at this site.

3.2.3 TSCA Incinerator

The TSCA Incinerator was given its name because its operation is authorized under the Toxic Substances Control Act to treat wastes containing PCBs. The incinerator is also permitted under RCRA to treat hazardous wastes. The TSCA Incinerator treats solid wastes, liquid wastes, and mixtures of the two. The wastes must be thoroughly characterized before arriving at the incinerator, and the facility's environmental permits greatly restrict the types and amounts of waste that the incinerator can treat.

4. DECISION TREE LOGIC

The PWSU soil management plan decision tree (Fig. 2) is used, by the designated competent person on site during the excavation activity to identify a pathway for handling excavated soil during the PWSU Project. Soil excavated during the project should be subjected to the decision tree analysis. Soil handling during the project must limit the spread of contamination. The decision tree addresses both contaminated and uncontaminated soil. Process knowledge has been used in the design stages of the PWSU to minimize the disturbance of known contaminated soil.

According to the *Soil Management Plan for the Oak Ridge Y-12 National Security Complex* (Y/SUB/92-28B99923C-Y05), any soil at Y-12 that is excavated must be managed according to regulatory requirements and associated best management practices (BMPs). It is considered a BMP to return soil excavated during routine operations and maintenance activities to the same area from which it was excavated unless the soil shows gross contamination.

Following is a discussion of the decisions to be made about excavated soil. Each step within the decision tree has been numbered for reference.

Decision 1.0, Gross Contamination

Whether excavated soil shows signs of gross contamination (Decision 1.0) is the first decision to be made during excavation. Strong odors, visible stains, visible mercury, or other material (such as solvents), as evaluated by the assigned competent person, as well as radiological surveillance by Y-12 RADCON personnel, will determine if the exposed soil is deemed grossly contaminated. If the soil is determined to be grossly contaminated, the soil must be managed in accordance with the *Waste Management Plan for the Y-12 Potable Water System Upgrades Project* (PL-PJ-900009-A004).

If gross contamination is encountered in the route of a particular water line segment or in the planned excavation for other water system improvements, the competent person will refer the situation to the project manager for consideration of redesign and or rerouting/relocation of the activity so that appropriate consideration of construction cost, administrative controls, regulatory compliance, and project schedule impacts can be given in the evaluation of alternatives.

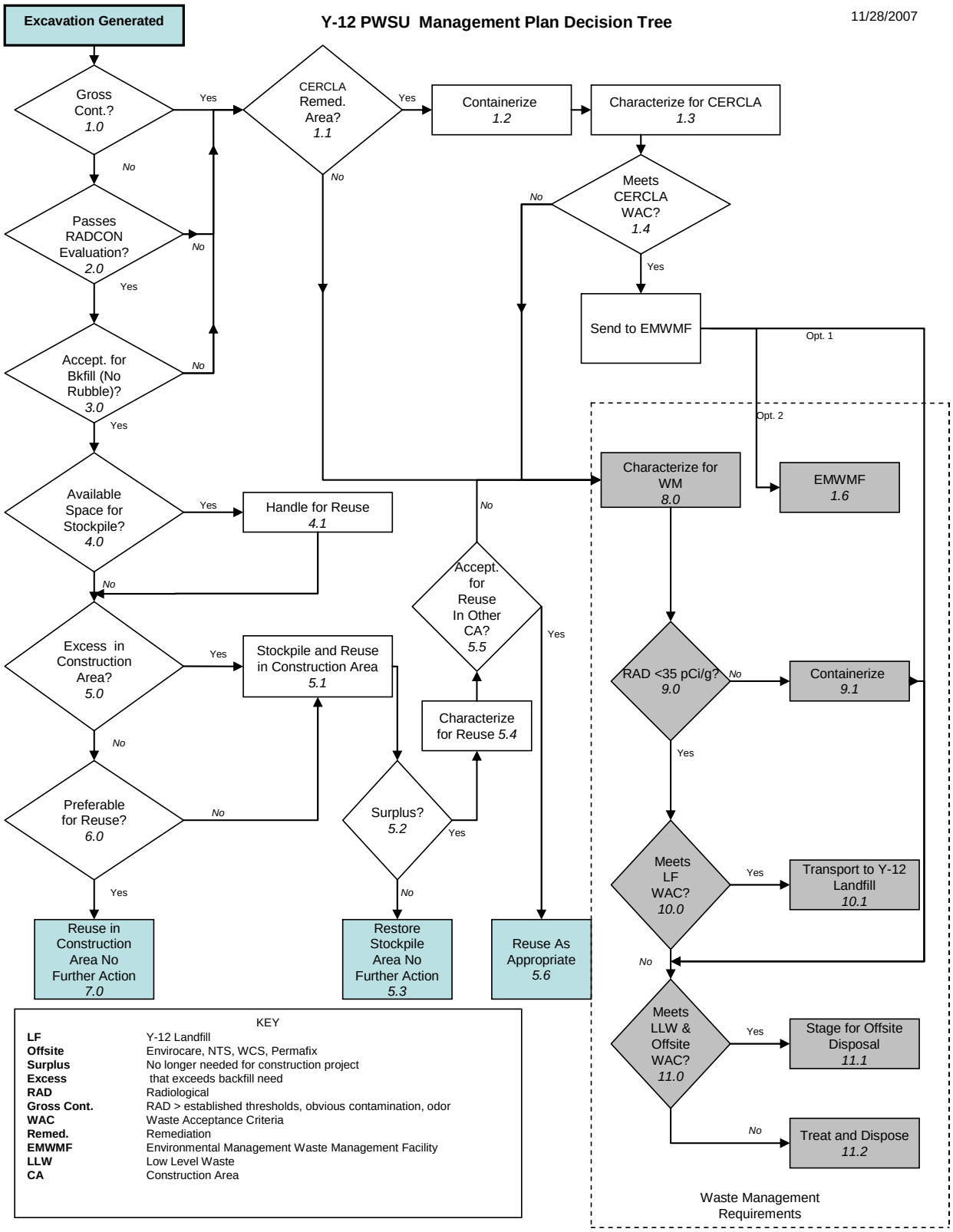

Fig. 2. PWSU soil management plan decision tree.

Decision 1.1, Excavation Within a Comprehensive Environmental Response, Compensation, and Liability Act of 1980 Remediation Area

If the soil is determined to be grossly contaminated and the excavation area falls within a Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) remediation area (specifically required by the ROD to be remediated) (Decision 1.1), as determined by the *Soil Management Plan for the Oak Ridge Y-12 National Security Complex* (Y/SUB/92-28B99923C-Y05, Rev. 1) (Y-12 SMP), final disposition of the contaminated soil could preferably be the Environmental Management Waste Management Facility (EMWMF). The Y-12 SMP should be used as a reference for determining if the soil would meet the EMWMF Waste Acceptance Criteria (WAC). If the soil does not meet the EMWMF WAC (Decision 1.5), the soil would be characterized by the Y-12 Waste Management Organization and either deposited in the Y-12 Construction Demolition Landfill VII (if WAC is satisfied), sent to an appropriate off-site disposal facility (if acceptable), or qualified for treatment.

Decision 1.4, Meets CERCLA WAC

Does the grossly contaminated soil from a CERCLA remediation area meet the waste acceptance criteria for the EMWMF?

Decision 2.0, Passes RADCON Evaluation

If the soil does not exceed the surface radioactivity guidelines as determined by RADCON (Decision 2.0) or if the contaminated portion of the area can be covered to prevent incidental contact by personnel, the soil is deemed suitable for backfill. Depending on the results of the radiological surveys, additional radiological controls may be implemented. These controls may include the use of RWPs, anti-C clothing, job coverage by RADCON technicians, and additional postings.

The table below shows actions to be taken, in general, under certain radiation level conditions:

If radiation levels are as follows:	Then:
less than 2 times background	no additional measures are necessary
greater than 2 times background and contamination is not transferable	field surveys should be increased to more closely monitor RAD levels
greater than 2 times levels are encountered with transferable contamination	actions will be taken to closely control transfer of soil
greater than 1000 dpm β/γ	RADCON determines how to handle soil and whether soil can be placed back into an excavation

Decision 3.0, Acceptable For Backfill (No Rubble)

The excavated soil must not contain any foreign material/rubble in excess of 2-in. diameter to be acceptable for backfill (Decision 3.0). If the excavated soil contains foreign material or unacceptable moisture content and is deemed unsuitable for backfill, the competent person can make a determination to either store the soil in a stockpile area (to dry or be blended or if suitable for another use) or characterize the soil for disposal (Decision 8.0). Soil that is high in moisture content and/or other structural

characteristics that would prevent it from being suitable for backfill from a composition standpoint would be determined either to be suitable for another use and placed in the staging area or removed from the construction area and characterized for waste management.

Decision 4.0, Available Space for Stockpile in Construction Area

If possible, excavated soil will be returned to the same general area and used as fill if practical, economical, and needed. If space is available in the immediate vicinity of the excavation (i.e., next to the ditch), minimal handling will be necessary and the soil can be readily reused (Decision 4.0).

Decision 5.0, Excess in Construction Area

If stockpiling the soil locally is not an option, a staging area within the construction area will have to be established. Applicable BMPs for dust control, erosion control, and storm water management will then be used to guide staging and management of the stockpiled soil to prevent contact with precipitation and surface water (run-on/run-off protection) and to minimize airborne fugitive emissions. A project-specific process for documenting the soil origin (construction area, line segment or excavation within the construction area, etc.) will be developed as appropriate to facilitate stockpile management and maximize soil reuse. Additional project-specific BMPs may further address soil staging, handling, and movement.

Excess soil is defined as soil that has been stockpiled and no longer needed within the construction area. Soil not immediately deemed ready for reuse will be stockpiled within the construction area for later use (Action 5.1). Examples may include soil with excessive moisture content or other unwanted physical characteristic. Soil may be staged to dry, provided runoff is collected and treated before release from the stockpile area. Dry backfill could then be removed from the staging area for immediate use (Decision 6.0).

Decision 5.2, Surplus

When work within a construction area is completed and no further backfill is needed, any excavated remaining soil will be declared surplus soil (Decision 5.2). Surplus soil may be used in another construction area if screening and process knowledge provide enough information to make a decision as to the soil's suitability for reuse within the other construction area (Decision 5.5). From a radiological protection perspective, if the total uranium concentration is less than 325 pCi/g (Appendix C), the soil may be considered suitable for reuse in the area where excavated. Soil may also be screened for mercury and PCB contamination (Action 5.4) if the conditions or process knowledge in the construction area indicate the need. If the surplus soil is not suitable for backfill in the area where excavated, it will be declared a waste and not be available for use in other areas. If radiological field screening and process knowledge indicate the soil may be able to go directly to the landfill, the soil will be characterized as to whether it meets the landfill WAC. Otherwise, the surplus soil will be managed in accordance with Y-12 waste disposal procedures.

Decision 5.5, Acceptable for Reuse in Another Constrction Area

Surplus soil from one construction area may be determined suitable for reuse in another construction area by the Radiological Control Organization if established radiological levels are not exceeded. Use in another construction area may be acceptable if the competent person determines that soil is not grossly contaminated.

Decision 6.0, Preferable for Reuse

If soil recently removed from an excavation is not suitable for immediate reuse because of excessive moisture content and there is existing stockpiled soil from within the same construction area that is immediately suitable for reuse, the moist soil should be stockpiled to allow drying for later reuse.

Action 8.0, Characterize for Waste Management

Soil will be treated as waste if it fails the gross contamination, radiological field characterization or is otherwise unacceptable because of the presence of rubble, excessive moisture, debris, objects, or other material unsuitable for backfill. At this point, the soil will be readied to undergo the Waste Management Organization's characterization criteria for the final disposition of waste soil (Action 8.0). The Y-12 landfill WAC has a limit of 35pCi/g for total uranium (Decision 9.0). The PCB WAC for contaminated soil is limited to 50 ppm. If the soil cannot be placed in the Y-12 Construction Demolition Landfill VII, other options include off-site disposal, treatment at a facility such as TSCA, or completion of CERCLA Federal Facilities Agreement documents approved by the Tennessee Department of Environment and Conservation and the Environmental Protection Agency for disposal in EMWMF.

According to the Y-12 SMP, if soil exhibits RCRA-hazardous characteristics, such as failing the RCRA toxicity characteristic leaching procedure, or is suspected of containing a RCRA-listed hazardous waste, it must be managed as RCRA waste until sufficient information is obtained to determine the regulatory status of the material. The Y-12 SMP further states that RCRA-hazardous soil should be stored under a structure and managed so that neither run-off nor leachate that would be subject to regulation is generated.

Decision 9.0, Rad <35 pCi/g

Does the soil meet the Y-12 landfill Radiological Waste Acceptance Criteria for total uranium (<35 pCi/g)?

Decision 10.0, Meets Landfill WAC

Does the soil meet the nonradiological requirements of the Y-12 landfill WAC (gross contamination, mercury, and PCBs)?

Decision 11.0, Meets Low-Level Waste and Off-Site WAC

Does the soil meet the WAC of the off-site disposal facility?

APPENDIX A. DEFINITIONS AND TERMINOLOGY

beneficial reuse—soil placement (backfill) into excavation upon completion of construction.

best management practice—those actions taken as required by the Y-12 National Pollutant Discharge Elimination System permit and Best Management Practice Program that ensure proper management of solid and hazardous waste in accordance with the Solid Waste Disposal Act as amended by the Resource Conservation Recovery Act. The BMP includes the project-specific actionsdeveloped to address specific pollutants of concern on the project. BMPs are not limited to surface water contaminants; they also include actions necessary to limit or eliminate pollutants in all media, including air, ground water, and surface water.

competent person—person identified by management as capable of making specific decisions for the project.

construction area—area that has soil with similar contaminant characteristics as determined by RADCON, the competent person, or Industrial Hygiene. Disturbed soil from a line segment, fire hydrant valve box, or other type excavation within a construction area can be used as backfill for other line segments, fire hydrant valve box, or other type excavation within that construction area without spreading contamination.

container—U.S. Department of Transportation containers approved for shipment to off-site disposal facilities.

excess soil—soil that exceeds backfill needs and cannot be used on the excavation site or within the construction area.

fixed contamination—the presence of radiological contamination that cannot be readily removed using the removable techniques as described in 10 CFR 835. Typically this type of contaminant does not have the physical characteristics to lend itself to adhering to personnel or equipment during incidental contact and therefore is less likely to spread contamination. If radioactive material contamination is present above the total surface contamination values presented in 10 CFR 835, Appendix D, and removable radioactive material contamination is less than Appendix D values, the area is considered a fixed contamination area.

gross contamination—strong odors, visible stains, visible mercury, or other material as evaluated by the project's competent person, as well as screening by Y-12 RADCON personnel. If the assigned competent person or Y-12 RADCON personnel designate soil as "grossly contaminated," the soil is not suitable for use as back fill.

local stockpile—excess soil stored for reuse within the construction area.

off-site disposal—soil removed from Y-12 and shipped to other facilities for disposal.

removable contamination—the radioactive material (contamination) that adheres to a swipe using techniques described in 10 CFR 835 "Occupational Radiation Protection." If the swipe is less than established removable guidelines, controls associated with removable radioactive material contamination

are not applicable under most circumstances. Swipe results will be interpreted by RADCON personnel to ensure adherence to federal law and to provide control of radioactive material.

reuse—use of soil determined to be fit for general use within the construction area or, with project management approval, within another construction area. Uses would include backfill of excavation, landscaping, grade change, etc.

soil handling—moving, storing, stockpiling, compacting, mounding, or placing the soil in a manner to facilitate immediate or timely reuse (backfilling) in the same excavation, ditch line, or construction site within the construction area.

soil management—application of best management practices and applicable regulatory requirements to excavated soil; includes special handling required for contaminated or suspect soil before it is declared waste.

surplus soil—soil no longer needed for backfill at the completion of the project.

transportable/movable contamination—soil that has fixed radiological contamination and, because of the physical characteristics of the soil, may be transportable/movable by adhesion to tools, equipment, construction material, shoes, and clothing.

waste soil—soil that is known, from process knowledge (or characterization), to be contaminated or grossly contaminated (of shiny appearance, noticeable odor, or of unnatural appearance and consistency). Soil that is declared waste would result in containerization and management as waste. Waste soil may include surplus soil within the construction area when construction activities are complete.

APPENDIX B. SOIL REMEDIATION LEVELS

Soil Remediation Levels[(a)]

Target COCs	Individual remediation levels	Basis for individual average remediation level	Industrial risk corresponding to individual average remediation level	Residual cumulative remediation goal
CARCINOGENS				
Cesium 137+D	Average: 11 pCi/g Maximum: 110 pCi/g	Detectability consideration and cost effectiveness	4.2×10^{-5}	1×10^{-4} ELCR[(b)]
Uranium 235+D	Average: 12 pCi/g Maximum: 120 pCi/g	Risk limit	1×10^{-5}	
Uranium 238+D	Average:50 pCi/g Maximum:500 pCi/g	Risk limit	1×10^{-5}	
PCB	Average:10 mg/kg Maximum:100 mg/kg	Risk limit	1×10^{-5}	
Radium 226+D	Average:6 pCi/g Maximum: 16 pCi/g	Site-specific background (1.4 pCi/G) plus 5 pCi/g	9.9×10^{-5}	NA
Thorium 232+D	Average: 8 pCi/g Maximum: 19 pCi/g	Site-specific background (2.75 pCi/g) plus 5 pCi/g	1.5×10^{-4}	NA
NONCARCINOGENS				
Cadmium	Average: 30 mg/kg Maximum: 300 mg/kg	Risk limit	HQ = 1	HI=1[f]
Mercury	Average: 325 mg/kg Maximum: 3,250 mg/kg	Risk limit	HQ = 1	
Uranium	Average: 1,150 mg/kg Maximum: 11,500 mg/kg	Risk limit	HQ = 1	

[(a)]From pp. 2–37 of *Record of Decision for Phase II Interim Remedial Actions for Contaminated Soils and Scrapyard in Upper Ease Fort Popular Creek, Oak Ridge, Tennessee* (DOE/OR/01-2229&D2)

[(b)]ELCR = excess lifetime cancer risk

APPENDIX C. SOIL CHARACTERIZATION RESULTS

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SUMMARY REPORT FOR SOIL SAMPLING IN SUPPORT OF THE POTABLE WATER SYSTEM UPGRADES PROJECT

February 2007

Prepared for
BWXT Y-12, L.L.C.
under Subcontract 4300055542

Prepared by
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APPENDIX C CONTENTS

1. INTRODUCTION

Soil sampling activities in support of the Y-12 Potable Water System Upgrade Project were completed by Restoration Services, Inc. (RSI) during December 2006 at the U.S. Department of Energy (DOE) Y-12 National Security Complex (Y-12) located in Oak Ridge, Tennessee. Field activities were completed under BWXT Y-12 Subcontract Number 4300055542 issued under Prime Contract Number DE-AC0500OR22800. Work was completed in accordance with approved work control documents submitted by RSI and approved by Y-12 prior to the notice to proceed for mobilization. Under this task, RSI supported Y-12 representatives in the collection of soil samples from five locations (see Appendix C-A.1, Fig. C-A.1) proposed for potable water system upgrades. If asphalt was present at a sample location, a sample of the material also was collected. All samples were provided to Y-12 field representatives for appropriate sample processing. As discussed in this report, results of this sampling effort will be used to support project Environment, Safety, and Health and Waste Operations requirements.

Detailed field activities completed are discussed in Sect. 2, including a description of field methods used and discussion of each characterization area. Figures of the five site locations are provided in Appendix A (see Figs. C-A.1 through C-A.4).

A summary of data results is provided in Sect. 3 (see data tables provided in Appendix C-B.1). Additional field data associated with each sample location, such as location coordinates and sample interval delineations, is provided in Appendix C-C.1.

2. SCOPE SUMMARY

The following subsections describe the scope requirements and methods used by RSI to obtain soil samples in support of the Potable Water System Upgrade Project. Work was completed in accordance with all applicable work control documents, including the *Environment, Safety and Health Plan for Potable Water System Upgrade Project Soil Characterization*, RSI-RFP6300071236-001-R0, which contained an Activity Hazard Assessment for field characterization activities. Approved excavation/penetration (E/P) permits FY-07-25E and FY07-10E were provided by Y-12 to cover intrusive sampling activities walked down by RSI and Y-12 field personnel prior to initiation of activities. In addition, Tennessee One-Call was contacted prior to intrusive activities to verify no additional underground utilities were present in characterization areas.

2.1 SAMPLE COLLECTION METHODS

RSI used a Geoprobe® Model 54DT and Geoprobe® Model 54LT Direct Push Technology unit to collect continuous core samples associated with the characterization effort. The Geoprobe® 54LT was used at sample locations north of Bear Creek Road on Pine Ridge (Area 5) because of safety issues related to the sloped terrain. The Geoprobe® 54LT is a remote-operated unit that allows operation in challenging terrain under safe configuration.

Continuous core samples were obtained with a 4-ft-long by 2.5-in.-diameter steel sample barrel (Macro Core®) outfitted with an internal Lexan® liner. The Macro Core® was advanced to the designated sample depth at each location using probe rods advanced with hydraulic hammer controls on the Geoprobe®. A decontaminated cutting shoe and new Lexan® liner was used on the Macro Core® for each

sample interval obtained, and a decontaminated Macro Core® was used at each of the 24 sample locations completed.

When sampling equipment was advanced through asphalt surfaces prior to obtaining soil core samples, a decontaminated concrete bit with hammer controls was used on the Geoprobe® to advance through the asphalt interval. Following penetration with the concrete bit, subsequent asphalt samples were obtained either manually or with the Macro Core® to collect the shallow underlying soil sample.

Upon completion of a sample interval, the Lexan® liner was removed from the Macro Core® and opened in the field with a specifically designed safe-cutting device to access collected soils. As part of the sampling activities, soil contained in the Lexan® liner was screened in the field for radiological contamination with field monitoring instruments. Following field screening, the sample was processed by Y-12 field representatives, who used decontaminated or disposable sampling equipment to composite and collect sample intervals in appropriate containers for transport to the Y-12 Analytical Chemistry Organization (ACO) laboratory for analysis.

Following sample collection, remaining soils not submitted for laboratory analysis were returned to down-hole sample locations. Soils placed down hole were tamped in place using a length of polyvinyl chloride pipe outfitted with an end cap. As required, following disposal of residual soil, remaining void space at sample locations was filled to ground surface with pea gravel.

An underground obstruction was encountered in Characterization Area 1 (Sample Location A1H3) at a depth of approximately 6 in. bgs. A second attempt to collect subsurface soil at a location approximately 4 ft north of the original A1H3 location also met refusal at approximately 6 in. bgs. This condition should be noted when closing out the E/P permit for this area. Additional detail is discussed in Sect. 2.2.1.

Following completion of field activities, down-hole equipment was decontaminated at on-site Y-12 support facilities (Building 9108). A radiological material transfer survey (“green-tag”) was completed on all characterization equipment that provided unrestricted release from the site. The Geoprobe® and associated sample support trailers were demobilized from the site to the RSI facility on December 27, 2006.

2.2 CHARACTERIZATION AREAS

Per task requirements and coordination with -Y12 field representatives, RSI collected samples from 24 locations spread across the five characterization areas (Appendix C-A.1, Fig. C-A.1). Continuous soil cores (and asphalt/concrete samples, where applicable) were collected at each location to depths ranging from a minimum 6 ft bgs to a maximum of 11 ft bgs. Details of sampling activities conducted at each of the five characterization areas are provided in the following subsections. A discussion of sample results is presented in Sect. 3.

2.2.1 Areas 1 and 2

Six sample locations were completed from Areas 1 and 2, also referred to as the North First Street alleyway (Appendix C-A.1, Fig. C-A.2). Three locations were completed from each end of the alley way. Area 1 represents the western-most locations completed (locations A1H1, A1H2 and A1H3) near Bldg. 9110. Area 2 represents the locations completed on the east end of the alleyway (locations A2H1, A2H2, and A2H3) near the northeast corner of Buidling 9723-14.

The planned sampling approach at the six locations sampled from Areas 1 and 2 included three sample intervals. The first interval (A-interval) consisted of an asphalt sample located at the surface of

each sample location. The second interval (B-interval) consisted of below asphalt to a depth of 2 ft bgs. The third interval (C-interval) consisted of 2 to 11 ft bgs. Following collection of the A-interval at location A1H3, refusal was encountered at approximately 6 in. bgs. The location was moved approximately 4 ft from the north of the initial location and a second attempt to collect the B-interval sample was again met with refusal at approximately 6 in. bgs. For this reason, only an A-interval was collected at sample location A1H3. A total of 16 samples were collected from Areas 1 and 2 and forwarded to the Y-12 ACO for analysis.

2.2.2 Areas 3 and 4

Eight sample locations were completed from Areas 3 and 4, also referred to as the Mod West area (Appendix C-A.1, Fig. C-A.3). Sample locations A4H1 through A4H4 (Area 4) were completed at one area where a proposed water line will cross an abandoned nitric acid pipeline. Each sample location was split into two sample intervals that consisted of a surface to 2 ft bgs interval (B-interval) and a 2 to 6 ft bgs interval (C-interval).

Sample locations A3H1 through A3H4 (Area 3) were completed at a second location adjacent to the former Bldg. 9825. Similar to the other location in this area, each sample location was split into two sample intervals that consisted of a surface to 2 ft bgs interval (B-interval) and a 2 ft to 6 ft bgs interval (C-interval).

2.2.3 Area 5

Ten sample locations were completed from Area 5, which is located north of Bear Creek Road on the slope of Pine Ridge (Appendix C-A.1, Fig. C-A.4). The approximately 1-acre site is the proposed location of two aboveground water storage tanks associated with the potable water system upgrade. For sample compositing purposes, the 10 locations were split into two sample groups (samples A51H1 through A51H5, and samples A52H1 through A52H5). A total of four composite soil samples were submitted to the Y-12 ACO for analysis, two five-point composite samples (A51HB and A52HB) collected from the surface to 2 ft bgs interval and two five-point composite samples (A51HC and A52HC) collected from the 2 to 8 ft bgs interval.

3. DATA SUMMARY

The following is a brief summary of data results associated with the asphalt and soil samples collected in support of the Potable Water System Upgrades Project. As stated previously, Y-12 field representatives were responsible for sample processing, required chain-of-custody documentation, and sample transport to the Y-12 ACO for analysis. An overview of the results per sample location and by sample interval is provided in Appendix C-B.1. Additional sample location information such as location coordinates and interval depths by sample is provided in Appendix C-C.1.

For the purpose of data interpretation, results for associated analytes will be compared to soil remediation levels (average and/or maximum) as agreed to in the Upper East Fork Poplar Creek (UEFPC) Record of Decision (ROD) and/or background soil characterization levels identified for the Oak Ridge Reservation (ORR).

Asphalt samples collected during characterization activities were submitted for laboratory tests and specific analytes as identified in Table 1, and soil samples collected were submitted for laboratory tests and specific analytes as identified in Table 2.

Table 1. Laboratory Tests and Associated Analytes for Asphalt Samples

Laboratory test	Analytes
ICP-MS 6020	Cadmium, chromium, lead, and uranium
ICP-MS uranium ratio	U-234, U-235, U-236 and U-238

Table 2. Laboratory Tests and Associated Analytes for Soil Samples

Laboratory test	Analytes
Alpha spec, thorium	Th-228, Th-230, Th-232, Th-234
Alpha spec, uranium	Total U, U-234, U-235, U-236, and U-238
Gamma spec	Cs-137 and Ra-226
Method 7471	Mercury
ICP-MS 6020	Cadmium, chromium, lead, and uranium
Method 8082	PCB (totals), Aroclors-1016, -1221, -1232, -1242, -1248, -1254, and -1260
Method 3540 (PCBs)	Percent moisture

3.1 AREAS 1 AND 2 DATA SUMMARY

Asphalt samples collected from each of the six sample locations at Areas 1 and 2 had detections of metals and uranium all at levels near or just slightly higher than background. Levels for target contaminants of concern (COCs) identified in the UEFPC ROD were well below average remediation levels for constituents sampled.

Soil samples collected at Areas 1 and 2 indicated the presence of polychlorinated biphenyls (PCBs) in both the upper and lower sample intervals at a few sample locations. The highest concentration of PCBs detected in this area was from sample A2H3B with a concentration of 110 µg/kg. PCBs were also detected in sample A2H2C at concentrations of 55 µg/kg. Average remediation levels for PCBs identified in the UEFPC ROD is 10 mg/kg (10,000 µg/kg). Levels of PCBs identified in soils at these two areas are well below the average remediation level.

Other constituents for soil samples analyzed were present all at levels near or just slightly higher than background. Levels for target COCs identified in the UEFPC ROD were well below average remediation levels for constituents sampled.

3.2 AREAS 3 AND 4 DATA SUMMARY

Soil samples collected at Areas 3 and 4 indicate slightly elevated PCBs in the upper sample intervals, potentially related to historical operations at the former Bldg. 9825. PCBs were detected in seven of the eight upper intervals sampled in Areas 3 and 4, with the exception of sample location A4H4 where PCBs were not detected in either the upper or lower soil intervals. The highest concentration of PCBs detected in this area was from sample A4H3B at a concentration of 3200 µg/kg. The lowest detection of PCBs in the upper interval was at location A3H1B at a concentration of 72 µg/kg. PCBs were only detected in the lower intervals at locations A3H4, A4H1, and A4H3 at 430 µg/kg, 310 µg/kg and 170 µg/kg, respectively.

The average remediation levels for PCBs identified in the UEFPC ROD are 10 mg/kg (10,000 µg/kg). Levels of PCBs identified in soils at these two areas are below this average remediation level. However, based on the soil PCB concentrations in these areas, special consideration may be required to dispose of this material at landfill areas on the ORR. Additional sampling for the extent of PCB contamination also may be warranted based on the potable water system upgrades being proposed for this area.

Other constituents for soil samples analyzed were present all at levels near or just slightly higher than background. Levels for target COCs identified in the UEFPC ROD were well below the average remediation levels for constituents sampled.

3.3 AREA 5 DATA SUMMARY

Surface composite soil samples A51HB and A52HB and lower interval composite soil samples A51HC and A52HC collected from Area 5 indicate detected constituents comparable to background levels for the ORR. As with the other areas sampled, levels for target COCs identified in the UEFPC ROD were well below the average remediation levels. PCBs were not detected in any samples collected from this area.

Appendix C-A.1. Figures

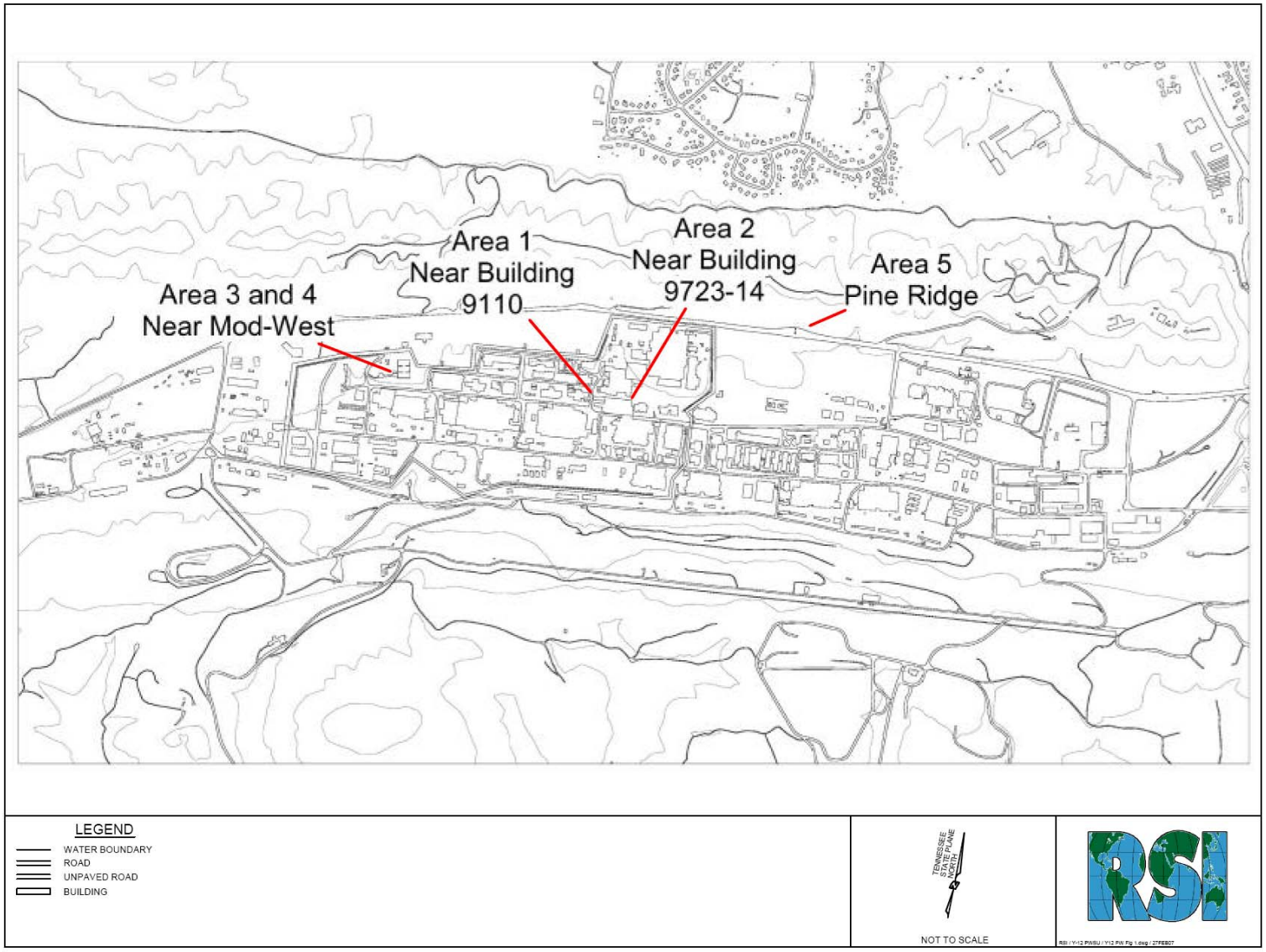

Fig. C-A.1. General map of the Y-12 site displaying soil sample areas in support of the PWSU Project.

Fig. C-A.2. Soil Sampling Area 1 near Building 9110 and Area 2 near Building 9723-14.

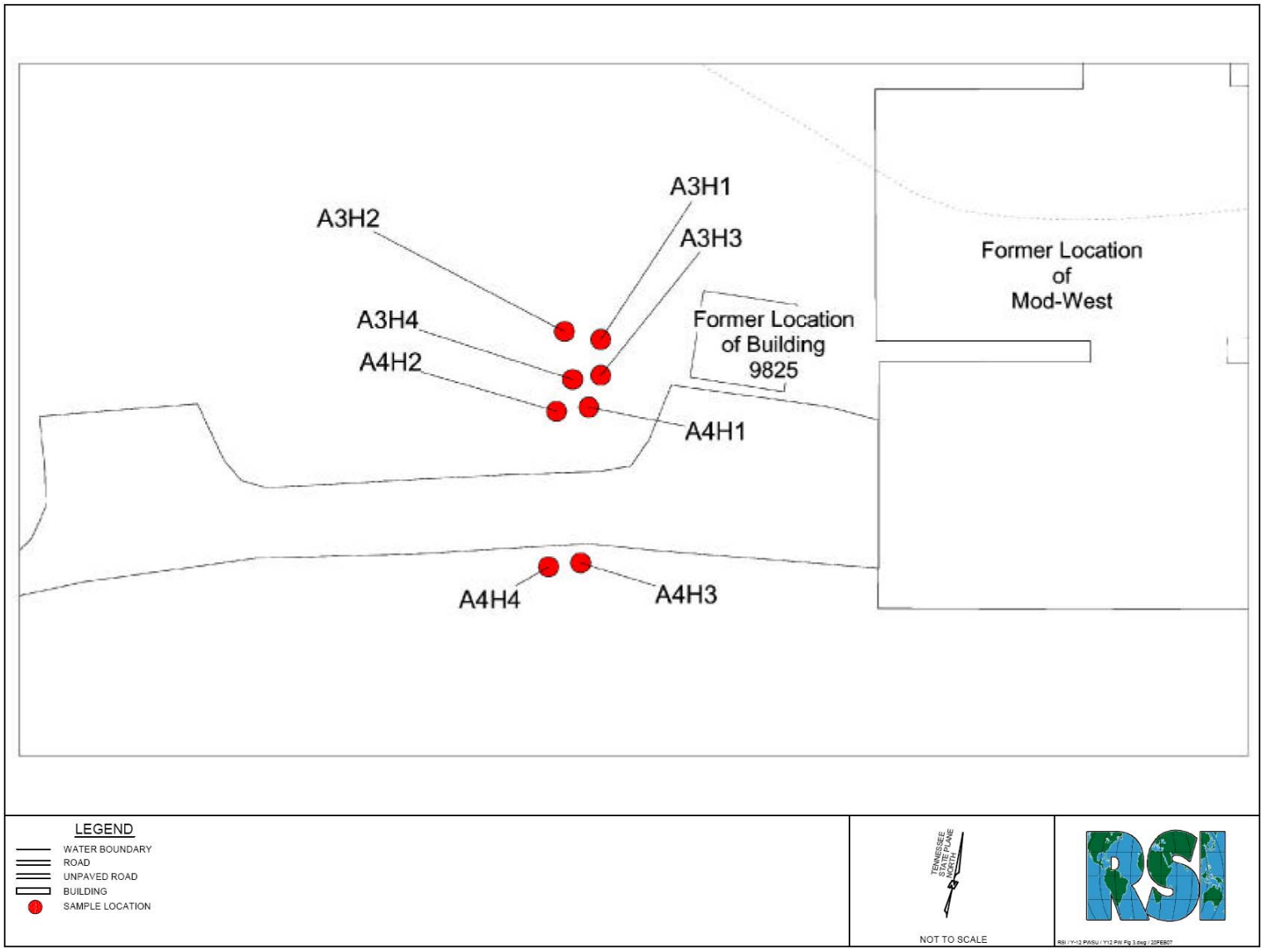

Fig. C-A.3. Soil Sampling Areas 3 and 4 near Mod West.

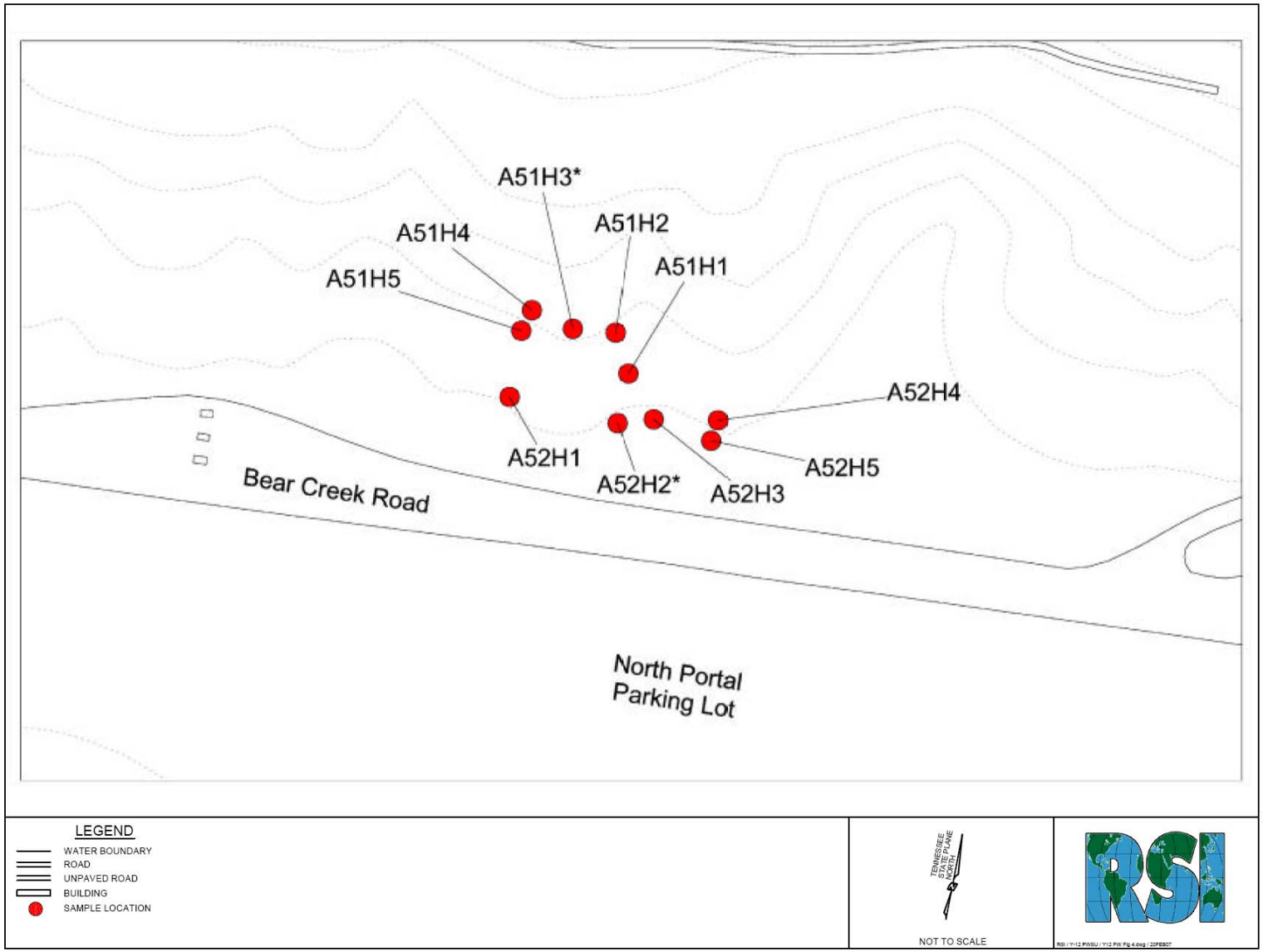

Fig. C-A.4. Soil sampling locations on Pine Ridge.

Appendix C-B.1. Sample Results Summary

Table C-B.1. Sample Results

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECTH-ENV	14274829	Thorium-228		0.37	pCi/g		0.056		0.083
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECTH-ENV	14269637	Thorium-230		0.15	pCi/g		0.076		0.058
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECTH-ENV	N2608	Thorium-232		0.27	pCi/g		0.019		0.064
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECTH-ENV	15065108	Thorium-234		1.2	pCi/g		0.031		0.19
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECU-ENV	N1763	Total U Alpha Activity		4.3	pCi/g		0.14		0.63
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECU-ENV	13966295	Uranium-234		2.9	pCi/g		0.067		0.37
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECU-ENV	15117961	Uranium-235		0.12	pCi/g		0.026		0.046
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECU-ENV	13982702	Uranium-236		0.043	pCi/g		0.019		0.025
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ASPECU-ENV	24678828	Uranium-238		1.2	pCi/g		0.031		0.19
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	GAMSPEC-ENV	10045973	Cesium-137		0.057	pCi/g		0.036		0.031
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	GAMSPEC-ENV	13982633	Radium-226		0.75	pCi/g		0.11		0.14
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	HG7471	7439976	Mercury		0.0780	ug/g			0.032	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ICPMS6020EXT	7440439	Cadmium	<	0.089	ug/g			0.0892	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ICPMS6020EXT	7440473	Chromium		10.4	ug/g			0.357	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ICPMS6020EXT	7439921	Lead		8.34	ug/g			0.0178	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	ICPMS6020EXT	7440611	Uranium		3.67	ug/g			0.0178	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB3540	N668	Percent Moisture		22.7	%				
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	12674112	Aroclor-1016		58	ug/kg	U		14	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	11104282	Aroclor-1221		58	ug/kg	U		5.3	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	11141165	Aroclor-1232		58	ug/kg	U		6.9	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	53469219	Aroclor-1242		58	ug/kg	U		16	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	12672296	Aroclor-1248		58	ug/kg	U		28	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	11097691	Aroclor-1254		58	ug/kg	U		9.6	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	11096825	Aroclor-1260		58	ug/kg	U		13	
12/20/06 13:15	A063540322	A51HB	PWSU AREA O	PCB8082	1336363	PCB, Total		58	ug/kg	U			
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECTH-ENV	14274829	Thorium-228		0.45	pCi/g		0.074		0.093
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECTH-ENV	14269637	Thorium-230		0.11	pCi/g		0.09		0.057
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECTH-ENV	N2608	Thorium-232		0.25	pCi/g		0.02		0.061
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECTH-ENV	15065108	Thorium-234		0.090	pCi/g		0.026		0.032
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECU-ENV	N1763	Total U Alpha Activity		0.28	pCi/g		0.14		0.11

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECU-ENV	13966295	Uranium-234		0.19	pCi/g		0.072		0.056
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECU-ENV	15117961	Uranium-235		-0.0045	pCi/g		0.027		0.012
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.017		0.005
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ASPECU-ENV	24678828	Uranium-238		0.09	pCi/g		0.026		0.032
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	GAMSPEC-ENV	10045973	Cesium-137		-0.014	pCi/g		0.031		0.019
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	GAMSPEC-ENV	13982633	Radium-226		0.67	pCi/g		0.088		0.11
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ICPMS6020EXT	7440439	Cadmium	<	0.1	ug/g			0.0996	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ICPMS6020EXT	7440473	Chromium		9.27	ug/g			0.398	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ICPMS6020EXT	7439921	Lead		7.65	ug/g			0.0199	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	ICPMS6020EXT	7440611	Uranium		0.712	ug/g			0.0199	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB3540	N668	Percent Moisture		13.6	%				
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	12674112	Aroclor-1016		53	ug/kg	U		12	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	11104282	Aroclor-1221		53	ug/kg	U		4.8	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	11141165	Aroclor-1232		53	ug/kg	U		6.3	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	53469219	Aroclor-1242		53	ug/kg	U		14	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	12672296	Aroclor-1248		53	ug/kg	U		26	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	11097691	Aroclor-1254		53	ug/kg	U		8.7	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	11096825	Aroclor-1260		53	ug/kg	U		12	
12/20/06 13:20	A063540323	A51HC	PWSU AREA O	PCB8082	1336363	PCB, Total		53	ug/kg	U			
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECTH-ENV	14274829	Thorium-228		0.38	pCi/g		0.062		0.085
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECTH-ENV	14269637	Thorium-230		0.14	pCi/g		0.094		0.061
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECTH-ENV	N2608	Thorium-232		0.28	pCi/g		0.021		0.065
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECTH-ENV	15065108	Thorium-234		0.58	pCi/g		0.025		0.089
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECU-ENV	N1763	Total U Alpha Activity		0.91	pCi/g		0.13		0.18
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECU-ENV	13966295	Uranium-234		0.31	pCi/g		0.071		0.067
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECU-ENV	15117961	Uranium-235		0.022	pCi/g		0.023		0.02
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.015		0.0043
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ASPECU-ENV	24678828	Uranium-238		0.58	pCi/g		0.025		0.089
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	GAMSPEC-ENV	10045973	Cesium-137		0.045	pCi/g		0.029		0.028
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	GAMSPEC-ENV	13982633	Radium-226		0.61	pCi/g		0.075		0.12
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	HG7471	7439976	Mercury		0.0449	ug/g			0.031	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ICPMS6020EXT	7440439	Cadmium	<	0.094	ug/g			0.0941	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ICPMS6020EXT	7440473	Chromium		9.73	ug/g			0.376	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ICPMS6020EXT	7439921	Lead		10.8	ug/g			0.0188	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	ICPMS6020EXT	7440611	Uranium		2.53	ug/g			0.0188	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB3540	N668	Percent Moisture		16.4	%				
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	12674112	Aroclor-1016		46	ug/kg	U		11	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	11104282	Aroclor-1221		46	ug/kg	U		4.2	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	11141165	Aroclor-1232		46	ug/kg	U		5.5	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	53469219	Aroclor-1242		46	ug/kg	U		13	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	12672296	Aroclor-1248		46	ug/kg	U		22	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	11097691	Aroclor-1254		46	ug/kg	U		7.6	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	11096825	Aroclor-1260		46	ug/kg	U		10	
12/20/06 14:07	A063540324	A52HB	PWSU AREA O	PCB8082	1336363	PCB, Total		46	ug/kg	U			
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECTH-ENV	14274829	Thorium-228		0.57	pCi/g		0.058		0.1
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECTH-ENV	14269637	Thorium-230		0.19	pCi/g		0.082		0.063
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECTH-ENV	N2608	Thorium-232		0.36	pCi/g		0.019		0.074
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECTH-ENV	15065108	Thorium-234		0.45	pCi/g		0.025		0.080
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECU-ENV	N1763	Total U Alpha Activity		0.80	pCi/g		0.13		0.17
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECU-ENV	13966295	Uranium-234		0.33	pCi/g		0.062		0.07
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECU-ENV	15117961	Uranium-235		0.014	pCi/g		0.021		0.014
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECU-ENV	13982702	Uranium-236		0.0072	pCi/g		0.017		0.0088
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ASPECU-ENV	24678828	Uranium-238		0.45	pCi/g		0.025		0.08
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	GAMSPEC-ENV	10045973	Cesium-137		-0.013	pCi/g		0.043		0.026
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	GAMSPEC-ENV	13982633	Radium-226		0.51	pCi/g		0.13		0.17
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ICPMS6020EXT	7440439	Cadmium	<	0.095	ug/g			0.0945	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ICPMS6020EXT	7440473	Chromium		7.79	ug/g			0.378	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ICPMS6020EXT	7439921	Lead		9.92	ug/g			0.0189	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	ICPMS6020EXT	7440611	Uranium		0.646	ug/g			0.0189	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB3540	N668	Percent Moisture		13.6	%				
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	12674112	Aroclor-1016		54	ug/kg	U		13	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	11104282	Aroclor-1221		54	ug/kg	U		4.9	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	11141165	Aroclor-1232		54	ug/kg	U		6.4	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	53469219	Aroclor-1242		54	ug/kg	U		15	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	12672296	Aroclor-1248		54	ug/kg	U		26	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	11097691	Aroclor-1254		54	ug/kg	U		8.9	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	11096825	Aroclor-1260		54	ug/kg	U		12	
12/20/06 14:10	A063540325	A52HC	PWSU AREA O	PCB8082	1336363	PCB, Total		54	ug/kg	U			
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.44	pCi/g		0.033		0.082
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.14	pCi/g		0.043		0.045
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.39	pCi/g		0.018		0.075
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.39	pCi/g		0.032		0.081
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.0	pCi/g		0.13		0.22
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.64	pCi/g		0.074		0.12
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.018	pCi/g		0.027		0.019
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.39	pCi/g		0.032		0.081
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.00038	pCi/g		0.031		0.018
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.59	pCi/g		0.09		0.092
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	HG7471	7439976	Mercury		0.402	ug/g			0.031	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.238	ug/g			0.1	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.46	ug/g			0.4	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		15.9	ug/g			0.02	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.43	ug/g			0.02	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB3540	N668	Percent Moisture		17.8	%				
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		57	ug/kg	U		13	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		57	ug/kg	U		5.2	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		57	ug/kg	U		6.8	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		57	ug/kg	U		16	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		57	ug/kg	U		28	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		72	ug/kg			9.4	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		57	ug/kg	U		13	
12/21/06 9:52	A063550134	A3H1B	PWSU AREA P	PCB8082	1336363	PCB, Total		72	ug/kg				
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.73	pCi/g		0.029		0.12
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.3	pCi/g		0.043		0.066

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.53	pCi/g		0.017		0.092
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.20	pCi/g		0.031		0.055
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.48	pCi/g		0.15		0.15
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.27	pCi/g		0.073		0.073
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.014	pCi/g		0.027		0.017
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.019		0.0043
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.2	pCi/g		0.031		0.055
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0039	pCi/g		0.026		0.015
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.59	pCi/g		0.072		0.094
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	HG7471	7439976	Mercury		0.159	ug/g			0.031	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.107	ug/g			0.0894	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		6.45	ug/g			0.358	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		14.0	ug/g			0.0179	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.41	ug/g			0.0179	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB3540	N668	Percent Moisture		20.9	%				
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		62	ug/kg	U		15	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		62	ug/kg	U		5.7	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		62	ug/kg	U		7.4	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		62	ug/kg	U		17	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		62	ug/kg	U		30	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		62	ug/kg	U		10	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		38	ug/kg	J		14	
12/21/06 10:00	A063550135	A3H1C	PWSU AREA P	PCB8082	1336363	PCB, Total		38	ug/kg	J			
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.58	pCi/g		0.03		0.1
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.23	pCi/g		0.042		0.059
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.49	pCi/g		0.018		0.089
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.42	pCi/g		0.033		0.078
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.2	pCi/g		0.16		0.23
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.75	pCi/g		0.076		0.12
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.02	pCi/g		0.031		0.018
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0076	pCi/g		0.015		0.0092

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.42	pCi/g		0.033		0.078
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.045	pCi/g		0.026		0.023
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.5	pCi/g		0.074		0.098
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	HG7471	7439976	Mercury		0.265	ug/g			0.031	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.112	ug/g			0.0837	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.93	ug/g			0.335	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		12.2	ug/g			0.0167	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		2.58	ug/g			0.0167	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB3540	N668	Percent Moisture		16.8	%				
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		59	ug/kg	U		14	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		59	ug/kg	U		5.4	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		59	ug/kg	U		7	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		59	ug/kg	U		16	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		59	ug/kg	U		29	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		59	ug/kg	U		9.7	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		86	ug/kg			13	
12/21/06 10:08	A063550136	A3H2B	PWSU AREA P	PCB8082	1336363	PCB, Total		86	ug/kg				
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.52	pCi/g		0.039		0.11
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.29	pCi/g		0.05		0.077
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.51	pCi/g		0.022		0.1
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.24	pCi/g		0.030		0.057
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.57	pCi/g		0.16		0.16
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.31	pCi/g		0.082		0.076
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.022	pCi/g		0.027		0.021
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.017		0.0041
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.24	pCi/g		0.03		0.057
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.011	pCi/g		0.036		0.022
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.38	pCi/g		0.1		0.12
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	HG7471	7439976	Mercury		0.0428	ug/g			0.032	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.1	ug/g			0.0999	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.76	ug/g			0.4	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		9.07	ug/g			0.02	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.645	ug/g			0.02	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB3540	N668	Percent Moisture		21.4	%				
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		62	ug/kg	U		15	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		62	ug/kg	U		5.7	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		62	ug/kg	U		7.4	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		62	ug/kg	U		17	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		62	ug/kg	U		30	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		62	ug/kg	U		10	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		62	ug/kg	U		14	
12/21/06 10:15	A063550137	A3H2C	PWSU AREA P	PCB8082	1336363	PCB, Total		62	ug/kg	U			
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.5	pCi/g		0.041		0.097
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.18	pCi/g		0.048		0.055
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.41	pCi/g		0.022		0.083
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		1.1	pCi/g		0.030		0.16
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.9	pCi/g		0.14		0.32
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.74	pCi/g		0.07		0.12
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.049	pCi/g		0.025		0.028
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.012	pCi/g		0.019		0.012
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		1.1	pCi/g		0.03		0.16
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.056	pCi/g		0.028		0.029
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.47	pCi/g		0.084		0.091
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	HG7471	7439976	Mercury		0.0770	ug/g			0.031	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.117	ug/g			0.0946	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		2.95	ug/g			0.378	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		6.36	ug/g			0.0189	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.71	ug/g			0.0189	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB3540	N668	Percent Moisture		16.3	%				
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		590	ug/kg	U		140	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		590	ug/kg	U		54	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		590	ug/kg	U		70	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		590	ug/kg	U		160	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		590	ug/kg	U		280	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		2400	ug/kg			97	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		590	ug/kg	U		130	
12/21/06 10:28	A063550138	A3H3B	PWSU AREA P	PCB8082	1336363	PCB, Total		2400	ug/kg				
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.49	pCi/g		0.03		0.091
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.29	pCi/g		0.04		0.066
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.44	pCi/g		0.018		0.083
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.15	pCi/g		0.029		0.043
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.32	pCi/g		0.14		0.11
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.17	pCi/g		0.07		0.054
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0014	pCi/g		0.024		0.012
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.015		0.0042
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.15	pCi/g		0.029		0.042
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0052	pCi/g		0.046		0.028
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.63	pCi/g		0.14		0.12
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	HG7471	7439976	Mercury	<	0.031	ug/g			0.031	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.1	ug/g			0.0999	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		8.12	ug/g			0.4	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		10.2	ug/g			0.02	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.447	ug/g			0.02	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB3540	N668	Percent Moisture		17.8	%				
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		58	ug/kg	U		14	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		58	ug/kg	U		5.3	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		58	ug/kg	U		6.9	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		58	ug/kg	U		16	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		58	ug/kg	U		28	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		58	ug/kg	U		9.6	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		58	ug/kg	U		13	
12/21/06 10:35	A063550139	A3H3C	PWSU AREA P	PCB8082	1336363	PCB, Total		58	ug/kg	U			
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.47	pCi/g		0.036		0.092
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.22	pCi/g		0.044		0.06
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.38	pCi/g		0.02		0.079
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.37	pCi/g		0.028		0.076

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.67	pCi/g		0.14		0.17
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.29	pCi/g		0.067		0.07
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0086	pCi/g		0.025		0.013
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0028	pCi/g		0.018		0.01
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.37	pCi/g		0.028		0.076
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0035	pCi/g		0.022		0.013
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.31	pCi/g		0.062		0.071
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	HG7471	7439976	Mercury		0.0641	ug/g			0.031	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.134	ug/g			0.0975	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		7.89	ug/g			0.39	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		11.8	ug/g			0.0195	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.58	ug/g			0.0195	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB3540	N668	Percent Moisture		10.3	%				
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		260	ug/kg	U		61	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		260	ug/kg	U		24	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		260	ug/kg	U		31	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		260	ug/kg	U		72	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		260	ug/kg	U		130	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		580	ug/kg			43	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		260	ug/kg	U		58	
12/21/06 10:33	A063550140	A3H4B	PWSU AREA P	PCB8082	1336363	PCB, Total		580	ug/kg				
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.54	pCi/g		0.033		0.097
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.24	pCi/g		0.046		0.061
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.45	pCi/g		0.019		0.084
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.16	pCi/g		0.029		0.047
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.46	pCi/g		0.16		0.14
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.29	pCi/g		0.085		0.074
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0057	pCi/g		0.028		0.012
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.003	pCi/g		0.018		0.0067
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.16	pCi/g		0.029		0.047
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0061	pCi/g		0.027		0.017

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.52	pCi/g		0.072		0.11
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	HG7471	7439976	Mercury		0.0328	ug/g			0.032	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.098	ug/g			0.0979	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		8.19	ug/g			0.392	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		12.6	ug/g			0.0196	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.600	ug/g			0.0196	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB3540	N668	Percent Moisture		20.2	%				
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		61	ug/kg	U		14	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		61	ug/kg	U		5.6	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		61	ug/kg	U		7.3	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		61	ug/kg	U		17	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		61	ug/kg	U		30	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		430	ug/kg			10	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		61	ug/kg	U		14	
12/21/06 10:40	A063550141	A3H4C	PWSU AREA P	PCB8082	1336363	PCB, Total		430	ug/kg				
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.61	pCi/g		0.033		0.11
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.31	pCi/g		0.047		0.072
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.54	pCi/g		0.02		0.099
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		1.4	pCi/g		0.026		0.18
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		3.6	pCi/g		0.13		0.50
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		2.1	pCi/g		0.065		0.26
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.099	pCi/g		0.024		0.038
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.027	pCi/g		0.016		0.017
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		1.4	pCi/g		0.026		0.18
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.15	pCi/g		0.039		0.042
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.44	pCi/g		0.11		0.13
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	HG7471	7439976	Mercury		0.581	ug/g			0.033	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.0792	ug/g			0.0775	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.97	ug/g			0.31	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		10.8	ug/g			0.0155	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		2.12	ug/g			0.0155	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB3540	N668	Percent Moisture		19.2	%				

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		610	ug/kg	U		140	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		610	ug/kg	U		56	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		610	ug/kg	U		72	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		610	ug/kg	U		170	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		610	ug/kg	U		290	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		2000	ug/kg			100	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		610	ug/kg	U		130	
12/21/06 9:08	A063550142	A4H1B	PWSU AREA P	PCB8082	1336363	PCB, Total		2000	ug/kg				
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.5	pCi/g		0.044		0.1
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.2	pCi/g		0.046		0.062
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.41	pCi/g		0.024		0.091
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.23	pCi/g		0.026		0.053
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.72	pCi/g		0.14		0.16
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.49	pCi/g		0.074		0.09
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0013	pCi/g		0.024		0.012
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.016		0.004
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.23	pCi/g		0.026		0.053
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0082	pCi/g		0.025		0.015
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.55	pCi/g		0.078		0.081
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	HG7471	7439976	Mercury		0.436	ug/g			0.032	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.166	ug/g			0.0803	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		7.74	ug/g			0.321	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		12.6	ug/g			0.0161	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.715	ug/g			0.0161	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB3540	N668	Percent Moisture		20.6	%				
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		62	ug/kg	U		14	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		62	ug/kg	U		5.6	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		62	ug/kg	U		7.3	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		62	ug/kg	U		17	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		310	ug/kg			30	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		62	ug/kg	U		10	
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		62	ug/kg	U		14	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 9:20	A063550143	A4H1C	PWSU AREA P	PCB8082	1336363	PCB, Total		310	ug/kg				
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.46	pCi/g		0.029		0.081
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.16	pCi/g		0.045		0.047
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.4	pCi/g		0.017		0.072
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.37	pCi/g		0.028		0.074
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.0	pCi/g		0.14		0.21
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.62	pCi/g		0.071		0.11
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.022	pCi/g		0.026		0.019
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.016		0.0043
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.37	pCi/g		0.028		0.074
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.011	pCi/g		0.052		0.047
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.53	pCi/g		0.16		0.16
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	HG7471	7439976	Mercury		0.0737	ug/g			0.033	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.651	ug/g			0.0939	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		7.91	ug/g			0.376	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.77	ug/g			0.0188	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.44	ug/g			0.0188	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB3540	N668	Percent Moisture		17.7	%				
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		60	ug/kg	U		14	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		60	ug/kg	U		5.4	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		60	ug/kg	U		7.1	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		60	ug/kg	U		16	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		60	ug/kg	U		29	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		330	ug/kg			9.9	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		60	ug/kg	U		13	
12/21/06 9:25	A063550144	A4H2B	PWSU AREA P	PCB8082	1336363	PCB, Total		330	ug/kg				
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.51	pCi/g		0.03		0.093
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.24	pCi/g		0.046		0.061
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.42	pCi/g		0.02		0.08
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.12	pCi/g		0.026		0.037
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.49	pCi/g		0.13		0.13

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.36	pCi/g		0.064		0.074
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.01	pCi/g		0.023		0.013
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0024	pCi/g		0.016		0.0055
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.12	pCi/g		0.026		0.036
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0024	pCi/g		0.023		0.016
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.56	pCi/g		0.062		0.092
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	HG7471	7439976	Mercury		0.411	ug/g			0.033	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.088	ug/g			0.0876	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.04	ug/g			0.35	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.86	ug/g			0.0175	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.435	ug/g			0.0175	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB3540	N668	Percent Moisture		19.5	%				
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		62	ug/kg	U		14	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		62	ug/kg	U		5.6	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		62	ug/kg	U		7.3	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		62	ug/kg	U		17	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		62	ug/kg	U		30	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		46	ug/kg	J		10	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		62	ug/kg	U		14	
12/21/06 9:35	A063550145	A4H2C	PWSU AREA P	PCB8082	1336363	PCB, Total		46	ug/kg	J			
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.57	pCi/g		0.038		0.11
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.25	pCi/g		0.046		0.067
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.48	pCi/g		0.022		0.093
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.75	pCi/g		0.029		0.12
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.5	pCi/g		0.15		0.28
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.7	pCi/g		0.072		0.12
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.033	pCi/g		0.025		0.023
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.011	pCi/g		0.02		0.012
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.75	pCi/g		0.029		0.12
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.062	pCi/g		0.041		0.034
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.45	pCi/g		0.12		0.14
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	HG7471	7439976	Mercury		0.104	ug/g			0.032	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		1.20	ug/g			0.0839	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.48	ug/g			0.336	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		29.9	ug/g			0.0168	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		17.4	ug/g			0.0168	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB3540	N668	Percent Moisture		18.3	%				
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		590	ug/kg	U		140	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		590	ug/kg	U		54	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		590	ug/kg	U		70	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		590	ug/kg	U		160	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		590	ug/kg	U		280	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		3200	ug/kg			97	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		590	ug/kg	U		130	
12/21/06 8:40	A063550146	A4H3B	PWSU AREA P	PCB8082	1336363	PCB, Total		3200	ug/kg				
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.56	pCi/g		0.035		0.098
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.2	pCi/g		0.046		0.055
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.49	pCi/g		0.023		0.088
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.30	pCi/g		0.023		0.058
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.60	pCi/g		0.12		0.14
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.29	pCi/g		0.061		0.062
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.011	pCi/g		0.02		0.014
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.002	pCi/g		0.013		0.0075
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.3	pCi/g		0.023		0.058
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0059	pCi/g		0.028		0.016
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.66	pCi/g		0.087		0.095
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.09	ug/g			0.0895	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		14.6	ug/g			0.358	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		20.4	ug/g			0.0179	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.758	ug/g			0.0179	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB3540	N668	Percent Moisture		19.3	%				
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		60	ug/kg	U		14	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		60	ug/kg	U		5.4	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		60	ug/kg	U		7.1	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		60	ug/kg	U		16	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		60	ug/kg	U		29	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		170	ug/kg			9.8	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		60	ug/kg	U		13	
12/21/06 8:45	A063550147	A4H3C	PWSU AREA P	PCB8082	1336363	PCB, Total		170	ug/kg				
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.57	pCi/g		0.03		0.11
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.32	pCi/g		0.043		0.075
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.49	pCi/g		0.022		0.096
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.40	pCi/g		0.027		0.074
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.75	pCi/g		0.14		0.17
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.33	pCi/g		0.072		0.072
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.022	pCi/g		0.024		0.018
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0024	pCi/g		0.015		0.0057
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.4	pCi/g		0.027		0.074
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.05	pCi/g		0.051		0.036
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.62	pCi/g		0.16		0.11
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	HG7471	7439976	Mercury	<	0.033	ug/g			0.033	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.083	ug/g			0.0833	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		10.9	ug/g			0.333	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		7.58	ug/g			0.0167	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.05	ug/g			0.0167	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB3540	N668	Percent Moisture		19.3	%				
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		61	ug/kg	U		14	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		61	ug/kg	U		5.6	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		61	ug/kg	U		7.3	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		61	ug/kg	U		17	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		61	ug/kg	U		30	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		61	ug/kg	U		10	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		61	ug/kg	U		14	
12/21/06 8:54	A063550148	A4H4B	PWSU AREA P	PCB8082	1336363	PCB, Total		61	ug/kg	U			
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.67	pCi/g		0.029		0.11

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.27	pCi/g		0.043		0.065
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.56	pCi/g		0.018		0.099
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.22	pCi/g		0.024		0.049
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.53	pCi/g		0.12		0.13
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.3	pCi/g		0.064		0.064
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0089	pCi/g		0.021		0.014
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.013		0.0039
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.22	pCi/g		0.024		0.049
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0069	pCi/g		0.021		0.014
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.48	pCi/g		0.062		0.077
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.094	ug/g			0.0944	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		11.2	ug/g			0.378	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		28.2	ug/g			0.0189	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.720	ug/g			0.0189	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB3540	N668	Percent Moisture		22.5	%				
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		62	ug/kg	U		15	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		62	ug/kg	U		5.6	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		62	ug/kg	U		7.3	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		62	ug/kg	U		17	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		62	ug/kg	U		30	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		62	ug/kg	U		10	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		62	ug/kg	U		14	
12/21/06 9:05	A063550149	A4H4C	PWSU AREA P	PCB8082	1336363	PCB, Total		62	ug/kg	U			
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.098	ug/g			0.0983	
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		4.59	ug/g			0.393	
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		3.53	ug/g			0.0197	
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.785	ug/g			0.0197	
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.768	wt %				
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 8:45	A063610012	A1H1A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.2	wt %				

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.09	ug/g			0.0898	
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		6.47	ug/g			0.359	
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		6.35	ug/g			0.018	
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.26	ug/g			0.018	
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.689	wt %				
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 9:24	A063610013	A1H2A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.3	wt %				
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.117	ug/g			0.0911	
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.46	ug/g			0.364	
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		4.81	ug/g			0.0182	
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.720	ug/g			0.0182	
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.882	wt %				
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 10:15	A063610014	A1H3A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.1	wt %				
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.83	ug/g			0.826	
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		10.7	ug/g			3.3	
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.56	ug/g			0.165	
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		29.6	ug/g			0.165	
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.346	wt %				
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 10:46	A063610015	A2H1A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.7	wt %				
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.91	ug/g			0.915	
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		10.0	ug/g			3.66	
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		13.1	ug/g			0.183	
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		43.3	ug/g			0.183	
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.253	wt %				
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 11:05	A063610016	A2H2A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.7	wt %				

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	1	ug/g			0.999	
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		7.42	ug/g			4	
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMS6020EXT	7439921	Lead		14.7	ug/g			0.2	
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		34.9	ug/g			0.2	
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMSURATIO	13966295	Uranium-234		NA	wt %				
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMSURATIO	15117961	Uranium-235		0.627	wt %				
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMSURATIO	13982702	Uranium-236		NA	wt %				
12/22/06 11:30	A063610017	A2H3A	PWSU AREA P	ICPMSURATIO	24678828	Uranium-238		99.4	wt %				
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.12	pCi/g		0.056		0.043
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.2	pCi/g		0.083		0.063
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.084	pCi/g		0.019		0.03
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.65	pCi/g		0.028		0.11
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		2.3	pCi/g		0.14		0.37
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		1.6	pCi/g		0.066		0.22
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.053	pCi/g		0.025		0.031
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.014	pCi/g		0.017		0.013
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.65	pCi/g		0.028		0.11
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0054	pCi/g		0.016		0.01
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.3	pCi/g		0.046		0.056
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.155	ug/g			0.0958	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.22	ug/g			0.383	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		9.28	ug/g			0.0192	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.10	ug/g			0.0192	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB3540	N668	Percent Moisture		2.6	%				
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		48	ug/kg	U		11	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		48	ug/kg	U		4.4	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		48	ug/kg	U		5.7	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		48	ug/kg	U		13	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		48	ug/kg	U		23	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		48	ug/kg	U		8	
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		48	ug/kg	U		11	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 8:50	A063610018	A1H1B	PWSU AREA P	PCB8082	1336363	PCB, Total		48	ug/kg	U			
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.12	pCi/g		0.055		0.045
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.28	pCi/g		0.076		0.072
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.071	pCi/g		0.016		0.028
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.41	pCi/g		0.023		0.074
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.77	pCi/g		0.12		0.17
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.34	pCi/g		0.059		0.068
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.021	pCi/g		0.021		0.017
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0022	pCi/g		0.016		0.0083
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.41	pCi/g		0.023		0.074
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.000086	pCi/g		0.025		0.014
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.26	pCi/g		0.071		0.087
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	HG7471	7439976	Mercury		0.135	ug/g			0.031	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium	<	0.094	ug/g			0.0935	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		9.05	ug/g			0.374	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		5.59	ug/g			0.0187	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.856	ug/g			0.0187	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB3540	N668	Percent Moisture		3.6	%				
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		49	ug/kg	U		11	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		49	ug/kg	U		4.5	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		49	ug/kg	U		5.8	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		49	ug/kg	U		13	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		49	ug/kg	U		24	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		49	ug/kg	U		8.1	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		49	ug/kg	U		11	
12/22/06 9:15	A063610019	A1H1C	PWSU AREA P	PCB8082	1336363	PCB, Total		49	ug/kg	U			
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.2	pCi/g		0.056		0.053
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.26	pCi/g		0.084		0.071
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.2	pCi/g		0.018		0.049
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		3.2	pCi/g		0.025		0.35
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		4.9	pCi/g		0.12		0.58

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		1.6	pCi/g		0.073		0.20
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.074	pCi/g		0.024		0.034
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		3.2	pCi/g		0.025		0.35
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.0038	pCi/g		0.022		0.013
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.32	pCi/g		0.072		0.082
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.283	ug/g			0.0961	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		4.24	ug/g			0.384	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.53	ug/g			0.0192	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		0.928	ug/g			0.0192	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB3540	N668	Percent Moisture		4.3	%				
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		50	ug/kg	U		12	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		50	ug/kg	U		4.5	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		50	ug/kg	U		5.9	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		50	ug/kg	U		14	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		50	ug/kg	U		24	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		50	ug/kg	U		8.2	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		50	ug/kg	U		11	
12/22/06 9:30	A063610020	A1H2B	PWSU AREA P	PCB8082	1336363	PCB, Total		50	ug/kg	U			
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.17	pCi/g		0.061		0.055
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.28	pCi/g		0.089		0.078
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.091	pCi/g		0.02		0.034
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.77	pCi/g		0.026		0.12
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.3	pCi/g		0.13		0.24
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.49	pCi/g		0.063		0.088
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.033	pCi/g		0.023		0.023
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0074	pCi/g		0.016		0.0091
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.77	pCi/g		0.026		0.12
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.016	pCi/g		0.037		0.023
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.42	pCi/g		0.12		0.091
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.130	ug/g			0.0978	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.28	ug/g			0.391	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		11.3	ug/g			0.0196	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.17	ug/g			0.0196	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB3540	N668	Percent Moisture		5.7	%				
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		47	ug/kg	U		11	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		47	ug/kg	U		4.3	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		47	ug/kg	U		5.5	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		47	ug/kg	U		13	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		47	ug/kg	U		23	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		47	ug/kg	U		7.7	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		47	ug/kg	U		10	
12/22/06 9:40	A063610021	A1H2C	PWSU AREA P	PCB8082	1336363	PCB, Total		47	ug/kg	U			
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.1	pCi/g		0.052		0.04
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.27	pCi/g		0.079		0.072
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.11	pCi/g		0.02		0.036
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.73	pCi/g		0.025		0.11
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		1.1	pCi/g		0.13		0.21
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.38	pCi/g		0.07		0.076
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.022	pCi/g		0.023		0.017
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0047	pCi/g		0.016		0.0074
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.73	pCi/g		0.025		0.11
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0053	pCi/g		0.019		0.011
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.28	pCi/g		0.053		0.068
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	HG7471	7439976	Mercury	<	0.031	ug/g			0.031	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.135	ug/g			0.0993	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		4.23	ug/g			0.397	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		9.82	ug/g			0.0199	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		2.41	ug/g			0.0199	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB3540	N668	Percent Moisture		4.6	%				
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		37	ug/kg	U		8.7	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		37	ug/kg	U		3.4	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		37	ug/kg	U		4.4	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		37	ug/kg	U		10	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		37	ug/kg	U		18	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		37	ug/kg	U		6.1	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		37	ug/kg	U		8.2	
12/22/06 10:50	A063610022	A2H1B	PWSU AREA P	PCB8082	1336363	PCB, Total		37	ug/kg	U			
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.43	pCi/g		0.061		0.089
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.28	pCi/g		0.085		0.077
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.21	pCi/g		0.019		0.055
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.14	pCi/g		0.025		0.040
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.36	pCi/g		0.13		0.12
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.2	pCi/g		0.065		0.054
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.016	pCi/g		0.023		0.017
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0047	pCi/g		0.015		0.0074
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.14	pCi/g		0.025		0.04
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0059	pCi/g		0.021		0.012
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.38	pCi/g		0.053		0.08
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	HG7471	7439976	Mercury	<	0.03	ug/g			0.03	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.172	ug/g			0.0937	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		7.47	ug/g			0.375	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		10.6	ug/g			0.0187	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.74	ug/g			0.0187	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB3540	N668	Percent Moisture		9.2	%				
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		44	ug/kg	U		10	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		44	ug/kg	U		4	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		44	ug/kg	U		5.2	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		44	ug/kg	U		12	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		44	ug/kg	U		21	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		17	ug/kg	J		7.2	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		44	ug/kg	U		9.6	
12/22/06 11:00	A063610023	A2H1C	PWSU AREA P	PCB8082	1336363	PCB, Total		17	ug/kg	J			
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.14	pCi/g		0.048		0.041
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.27	pCi/g		0.073		0.064

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.12	pCi/g		0.016		0.034
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.22	pCi/g		0.025		0.052
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.49	pCi/g		0.13		0.14
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.25	pCi/g		0.066		0.061
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.014	pCi/g		0.023		0.015
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0073	pCi/g		0.017		0.0091
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.22	pCi/g		0.025		0.052
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.012	pCi/g		0.024		0.014
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.3	pCi/g		0.073		0.074
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	HG7471	7439976	Mercury	<	0.033	ug/g			0.033	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.221	ug/g			0.0948	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.55	ug/g			0.379	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		12.3	ug/g			0.019	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		6.79	ug/g			0.019	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB3540	N668	Percent Moisture		3.2	%				
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		49	ug/kg	U		12	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		49	ug/kg	U		4.5	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		49	ug/kg	U		5.8	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		49	ug/kg	U		14	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		49	ug/kg	U		24	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		49	ug/kg	U		8.2	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		49	ug/kg	U		11	
12/22/06 11:15	A063610024	A2H2B	PWSU AREA P	PCB8082	1336363	PCB, Total		49	ug/kg	U			
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.18	pCi/g		0.056		0.049
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.18	pCi/g		0.087		0.06
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.11	pCi/g		0.018		0.034
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.28	pCi/g		0.025		0.059
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.57	pCi/g		0.13		0.14
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.29	pCi/g		0.065		0.066
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.0018	pCi/g		0.022		0.0079
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.0024	pCi/g		0.017		0.0058

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.28	pCi/g		0.025		0.059
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0022	pCi/g		0.045		0.027
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.34	pCi/g		0.14		0.14
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	HG7471	7439976	Mercury	<	0.032	ug/g			0.032	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.156	ug/g			0.0887	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		5.46	ug/g			0.355	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		12.2	ug/g			0.0177	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		1.70	ug/g			0.0177	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB3540	N668	Percent Moisture		4.5	%				
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		49	ug/kg	U		11	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		49	ug/kg	U		4.5	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		49	ug/kg	U		5.8	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		49	ug/kg	U		13	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		49	ug/kg	U		24	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		55	ug/kg			8.1	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		49	ug/kg	U		11	
12/22/06 11:21	A063610025	A2H2C	PWSU AREA P	PCB8082	1336363	PCB, Total		55	ug/kg				
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.15	pCi/g		0.052		0.043
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.17	pCi/g		0.08		0.056
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.1	pCi/g		0.017		0.031
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.23	pCi/g		0.024		0.049
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.50	pCi/g		0.12		0.12
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.26	pCi/g		0.062		0.057
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.011	pCi/g		0.02		0.012
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0.002	pCi/g		0.014		0.0044
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.23	pCi/g		0.024		0.049
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		0.0016	pCi/g		0.02		0.012
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.27	pCi/g		0.055		0.076
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	HG7471	7439976	Mercury		0.0404	ug/g			0.031	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.163	ug/g			0.0843	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		12.7	ug/g			3.37	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.93	ug/g			0.169	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		29.8	ug/g			0.169	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB3540	N668	Percent Moisture		5.5	%				
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	12674112	Aroclor-1016		49	ug/kg	U		12	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	11104282	Aroclor-1221		49	ug/kg	U		4.5	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	11141165	Aroclor-1232		49	ug/kg	U		5.8	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	53469219	Aroclor-1242		49	ug/kg	U		14	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	12672296	Aroclor-1248		49	ug/kg	U		24	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	11097691	Aroclor-1254		110	ug/kg			8.2	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	11096825	Aroclor-1260		49	ug/kg	U		11	
12/22/06 11:25	A063610026	A2H3B	PWSU AREA P	PCB8082	1336363	PCB, Total		110	ug/kg				
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECTH-ENV	14274829	Thorium-228		0.15	pCi/g		0.05		0.042
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECTH-ENV	14269637	Thorium-230		0.22	pCi/g		0.076		0.058
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECTH-ENV	N2608	Thorium-232		0.14	pCi/g		0.015		0.035
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECTH-ENV	15065108	Thorium-234		0.29	pCi/g		0.025		0.065
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECU-ENV	N1763	Total U Alpha Activity		0.67	pCi/g		0.13		0.17
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECU-ENV	13966295	Uranium-234		0.35	pCi/g		0.062		0.077
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECU-ENV	15117961	Uranium-235		0.027	pCi/g		0.025		0.021
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECU-ENV	13982702	Uranium-236		0	pCi/g		0.016		0.0042
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ASPECU-ENV	24678828	Uranium-238		0.29	pCi/g		0.025		0.065
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	GAMSPEC-ENV	10045973	Cesium-137		-0.014	pCi/g		0.033		0.02
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	GAMSPEC-ENV	13982633	Radium-226		0.26	pCi/g		0.096		0.11
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	HG7471	7439976	Mercury	<	0.033	ug/g			0.033	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ICPMS6020EXT	7440439	Cadmium		0.101	ug/g			0.0979	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ICPMS6020EXT	7440473	Chromium		3.35	ug/g			0.392	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ICPMS6020EXT	7439921	Lead		8.66	ug/g			0.0196	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	ICPMS6020EXT	7440611	Uranium		2.13	ug/g			0.0196	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB3540	N668	Percent Moisture		4.2	%				
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	12674112	Aroclor-1016		39	ug/kg	U		9.3	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	11104282	Aroclor-1221		39	ug/kg	U		3.6	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	11141165	Aroclor-1232		39	ug/kg	U		4.7	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	53469219	Aroclor-1242		39	ug/kg	U		11	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	12672296	Aroclor-1248		39	ug/kg	U		19	

Date/Time Taken	LIMS ID	Customer ID	Location	Lab Test	CAS ID	Component	Prefix	Result	Units	Qualifier	MDA	Detection	TPU
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	11097691	Aroclor-1254		32	ug/kg	J		6.5	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	11096825	Aroclor-1260		39	ug/kg	U		8.7	
12/22/06 11:45	A063610027	A2H3C	PWSU AREA P	PCB8082	1336363	PCB, Total		32	ug/kg	J			

Appendix C-C.1. Sample Location Data

Area	Physical location	Sample loc	Sample ID	Type	Easting	Northing	Begin depth	End depth
1	Near 9110	A1H1	A1H1A	Asphalt	56766	30447	Surface	Surface
1	Near 9110	A1H1	A1H1B	Soil			Below asphalt	2 ft bgs
1	Near 9110	A1H1	A1H1C	Soil			2 ft bgs	11 ft bgs
1	Near 9110	A1H2	A1H2A	Asphalt	56766	30449	Surface	Surface
1	Near 9110	A1H2	A1H2B	Soil			Below asphalt	2 ft bgs
1	Near 9110	A1H2	A1H2C	Soil			2 ft bgs	11 ft bgs
1	Near 9110	A1H3	A1H3A	Asphalt	56767	30465	Surface	Surface
1	Near 9110	A1H3	A1H3B	Soil			Below asphalt	2 ft bgs
1	Near 9110	A1H3	A1H3C	Soil			2 ft bgs	11 ft bgs
2	Near 9723-14	A2H1	A2H1A	Asphalt	57192	30418	Surface	Surface
2	Near 9723-14	A2H1	A2H1B	Soil			Below asphalt	2 ft bgs
2	Near 9723-14	A2H1	A2H1C	Soil			2 ft bgs	11 ft bgs
2	Near 9723-14	A2H2	A2H2A	Asphalt	57204	30418	Surface	Surface
2	Near 9723-14	A2H2	A2H2B	Soil			Below asphalt	2 ft bgs
2	Near 9723-14	A2H2	A2H2C	Soil			2 ft bgs	11 ft bgs
2	Near 9723-14	A2H3	A2H3A	Asphalt	57218	30417	Surface	Surface
2	Near 9723-14	A2H3	A2H3B	Soil			Below asphalt	2 ft bgs
2	Near 9723-14	A2H3	A2H3C	Soil			2 ft bgs	11 ft bgs
3	Mod-West near 9825	A3H1	A3H1B	Soil	54560	30713	Surface	2 ft bgs
3	Mod-West near 9825	A3H1	A3H1C	Soil			2 ft bgs	6 ft bgs
3	Mod-West near 9825	A3H2	A3H2B	Soil	54551	30715	Surface	2 ft bgs
3	Mod-West near 9825	A3H2	A3H2C	Soil			2 ft bgs	6 ft bgs
3	Mod-West near 9825	A3H3	A3H3B	Soil	54560	30704	Surface	2 ft bgs
3	Mod-West near 9825	A3H3	A3H3C	Soil			2 ft bgs	6 ft bgs
3	Mod-West near 9825	A3H4	A3H4B	Soil	54553	30703	Surface	2 ft bgs
3	Mod-West near 9825	A3H4	A3H4C	Soil			2 ft bgs	6 ft bgs
4	Mod-West near ANAP	A4H1	A4H1B	Soil	54557	30696	Surface	2 ft bgs
4	Mod-West near ANAP	A4H1	A4H1C	Soil			2 ft bgs	6 ft bgs
4	Mod-West near ANAP	A4H2	A4H2B	Soil	54549	30695	Surface	2 ft bgs
4	Mod-West near ANAP	A4H2	A4H2C	Soil			2 ft bgs	6 ft bgs
4	Mod-West near ANAP	A4H3	A4H3B	Soil	54555	30657	Surface	2 ft bgs
4	Mod-West near ANAP	A4H3	A4H3C	Soil			2 ft bgs	6 ft bgs
4	Mod-West near ANAP	A4H4	A4H4B	Soil	54547	30656	Surface	2 ft bgs
4	Mod-West near ANAP	A4H4	A4H4C	Soil			2 ft bgs	6 ft bgs
5	Pine Ridge	A51H1	A51HB*	Soil	59465	31232	Surface	2 ft bgs
5	Pine Ridge	A51H2	A51HB*	Soil	59452	31274	Surface	2 ft bgs
5	Pine Ridge	A51H3	A51HB*	Soil	59408	31278	Surface	2 ft bgs
5	Pine Ridge	A51H4	A51HB*	Soil	59366	31297	Surface	2 ft bgs
5	Pine Ridge	A51H5	A51HB*	Soil	59355	31276	Surface	2 ft bgs
5	Pine Ridge	A51H1	A51HC*	Soil	59465	31232	2 ft bgs	8 ft bgs
5	Pine Ridge	A51H2	A51HC*	Soil	59452	31274	2 ft bgs	8 ft bgs
5	Pine Ridge	A51H3	A51HC*	Soil	59408	31278	2 ft bgs	8 ft bgs
5	Pine Ridge	A51H4	A51HC*	Soil	59366	31297	2 ft bgs	8 ft bgs
5	Pine Ridge	A51H5	A51HC*	Soil	59355	31276	2 ft bgs	8 ft bgs
5	Pine Ridge	A52H1	A52HB*	Soil	59343	31208	Surface	2 ft bgs
5	Pine Ridge	A52H2	A52HB*	Soil	59454	31181	Surface	2 ft bgs
5	Pine Ridge	A52H3	A52HB*	Soil	59491	31185	Surface	2 ft bgs
5	Pine Ridge	A52H4	A52HB*	Soil	59557	31184	Surface	2 ft bgs
5	Pine Ridge	A52H5	A52HB*	Soil	59550	31163	Surface	2 ft bgs
5	Pine Ridge	A52H1	A52HC*	Soil	59343	31208	2 ft bgs	8 ft bgs
5	Pine Ridge	A52H2	A52HC*	Soil	59454	31181	2 ft bgs	8 ft bgs
5	Pine Ridge	A52H3	A52HC*	Soil	59491	31185	2 ft bgs	8 ft bgs
5	Pine Ridge	A52H4	A52HC*	Soil	59557	31184	2 ft bgs	8 ft bgs
5	Pine Ridge	A52H5	A52HC*	Soil	59550	31163	2 ft bgs	8 ft bgs

*Samples consist of 5-location interval composite samples (two B-interval and two C-interval).